

SOUTHWICK-ON-WEAR
URBAN DISTRICT COUNCIL.

ANNUAL REPORT

ON THE
HEALTH AND SANITARY CONDITION
OF

SOUTHWICK-ON-WEAR,

BY

JOHN J. CARRUTHERS, M.B.C.M.,

Medical Officer of Health to the Southwick-on-Wear
Urban District Council.

FOR THE YEAR

—— 1909. ——

SOUTHWICK-ON-WEAR :
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ANNUAL REPORT,

1909.

*To the Chairman and Members of the Southwick-on-Wear
Urban District Council.*

GENTLEMEN,

I beg to submit to you my Report on the Health and Sanitary Condition of your District for the year 1909.

POPULATION.

It is estimated that the population at the middle of the year was 15,148, and on this number the tables are based.

BIRTHS.

The number of births registered during the year was 501, or 80 less than the number for 1908. This is equal to a birth-rate of 33'07 per thousand per annum, a decrease

of 5·28 per thousand compared with the birth-rate for 1908. The males numbered 258, and the females 243. The birth-rate in the Administrative County of Durham was 35·5.

Table showing Birth-rates for the past Ten Years.

Year.	Males.	Females.	Total.	Birth-rate per 1000.
1900	274	248	522	41·7
1901	246	264	510	40·1
1902	279	242	521	40·1
1903	265	260	525	39·5
1904	272	282	554	39·2
1905	272	290	562	38·03
1906	326	295	621	40·9
1907	260	276	536	35·38
1908	283	298	581	38·35
1909	258	243	501	33·07

Average birth-rate for the past 10 years.—38·63.

DEATHS.

The number of Deaths registered in the District during the year was 176. This is equal to a death-rate of 11·61 per thousand per annum. In public institutions and other places outside the district, 39 deaths occurred among persons belonging to the district, which makes the total number of deaths 215. The males numbered 112, and the females 103. The total death-rate is therefore 14·19 per thousand. The number of deaths is 63 less than the number for 1908, and the death-rate is lower by 4·11 per thousand. The death-rate in the Administrative County of Durham was 15·7.

The following table shows the monthly death-rate for 1909.

Month.	M.	F.	Death Rate.	Month.	M.	F.	Death Rate.
					57	52	
January ...	12	7	15'0	July.....	7	7	11'0
February	7	10	11'8	August ...	10	7	11'8
March.....	12	12	19'0	September	10	10	15'8
April	11	14	19'8	October ...	6	7	10'3
May.....	5	6	8'6	November	9	12	16'6
June	10	3	10'3	December	13	8	16'6
	57	52		Total	112	103	14'1

Table showing Death-rates for the past 10 years.

Year.	Deaths.	Rate.
1900	283	22'6
1901	285	22'4
1902	222	17'09
1903	243	18'3
1904	331	23'4
1905	275	18'6
1906	288	19'01
1907	244	16'1
1908	278	18'3
1909	215	14'1

Average Death-rate for the past 10 years:—18'9.

OLD AGE MORTALITY.

The old age mortality—the number of deaths of persons over the age of 65—was 35, which is 6 less than the number for 1908.

Table showing Old Age Mortality during the past 10 years.

Age over 65 years.

Year.	No. of Deaths.	Rate per 1000.
1900.....	30.....	2·3
1901.....	28.....	2·2
1902.....	26.....	2
1903.....	24.....	1·8
1904.....	49.....	3·4
1905.....	38.....	2·5
1906.....	35.....	2·3
1907.....	45.....	2·9
1908.....	41.....	2·7
1909.....	35.....	2·3

Average Old Age Mortality for the past 10 years 2·4

ADULT MORTALITY.

The adult mortality—that is the number of deaths of persons between the ages of 5 and 65 years—was 78, which is 9 less than the number for 1908.

Table showing Adult Mortality during the past 10 years.

Ages between 5 and 65.

Year.	No. of Deaths.	Rate per 1000.
1900.....	97.....	7·6
1901.....	105.....	8·2
1902.....	76.....	5·8
1903.....	76.....	5·7
1904.....	86.....	6·09
1905.....	90.....	6·08
1906.....	88.....	5·8
1907.....	95.....	6·2
1908.....	87.....	5·7
1909.....	78.....	5·1

Average Adult Mortality for the past 10 years 6·2

CHILDHOOD MORTALITY.

The childhood mortality—that is the number of deaths of children between the ages of 1 year and 5 years—was 43, which is 3 more than the number for 1908, and is equal to a death-rate of 2·8 per thousand.

Table showing Childhood Mortality for the last 10 years.

Ages between 1 and 5 years.

Year.	No. of Deaths.	Rate per 1000.
1900.....	57.....	4·5
1901.....	41.....	3·2
1902.....	46.....	3·5
1903.....	43.....	3·2
1904.....	84.....	5·9
1905.....	51.....	3·4
1906.....	49.....	3·2
1907.....	33.....	2·2
1908.....	40.....	2·6
1909.....	43.....	2·8

Average Childhood Mortality for the past 10 years :—3·4.

MORTALITY AMONG INFANTS.

The number of deaths of infants under 1 year of age was 59, which is 51 less than the number for 1908, and is equal to a death-rate of 3·8 per thousand.

Table showing Mortality among Infants under 1 year of age during the past 10 years.

Year.	No. of Deaths.	Rate per 1000.
1900.....	85.....	6·8
1901.....	111.....	8·7
1902.....	74.....	5·7
1903.....	100.....	7·5
1904.....	112.....	7·9
1905.....	96.....	6·4
1906.....	116.....	7·6
1907.....	71.....	4·6
1908.....	110.....	7·2
1909.....	59.....	3·8

Average Mortality among infants for the past 10 years 6·6.

INFANTILE MORTALITY.

The number of deaths of infants in the district was 57. To this number has to be added the deaths of 2 infants who died in an institution outside the district. The total number of deaths 59, is 51 less than the number for 1908, and makes the infantile mortality rate 117 per thousand births. This is 67 per thousand less than the rate for 1908, and much under the lowest recorded for this district.

Table showing Infantile Mortality during the past 10 years.

1900.....	162	per 1,000 births.
1901.....	217	„ „
1902.....	142	„ „
1903.....	190	„ „
1904.....	202	„ „
1905.....	170	„ „
1906.....	186	„ „
1907.....	132	„ „
1908.....	184	„ „
1909.....	117	„ „

Average Infantile Mortality for the past 10 years 170.

The number of deaths registered in the four quarters of the year was as follows:—

		Under 5 years.		Over 5 years.		Total.		Death Rate.
1st quarter	.....	35	.....	25	.....	60	.....	15·8
2nd ,,	.....	16	.....	33	.....	49	.....	12·9
3rd ,,	.....	28	.....	23	.....	51	.....	13·4
4th ,,	.....	23	.....	32	.....	55	.....	14·5

In the following table is recorded the quarterly death-rates and the annual death-rates for the past 10 years.

YEARS.	1ST QUARTER		2ND QUARTER		3RD QUARTER		4TH QUARTER		WHOLE YEAR	
	Deaths	Death Rate	Deaths	Death Rate	Deaths	Death Rate	Deaths	Death Rate	Deaths	Death Rate
1900	72	23·	65	20·8	59	18·8	87	27·5	283	22·6
1901	75	23·6	59	18·5	99	31·1	52	16·3	285	22·4
1902	46	14·3	68	21·	49	14·9	59	18·02	222	17·09
1903	50	15·2	60	18·1	61	18·2	72	21·5	243	18·3
1904	80	22·7	69	19·6	96	27·05	86	24·2	331	23·4
1905	68	18·6	70	18·9	82	21·9	55	14·7	275	18·6
1906	52	13·9	56	14·8	95	24·9	85	22·2	288	19·01
1907	86	23·	54	14·3	47	12·3	57	14·7	244	16·1
1908	60	15·8	65	17·1	71	18·7	82	21·6	278	18·3
1909	60	15·8	49	12·9	51	13·4	55	14·5	215	14·1

ZYMOTIC DISEASES.

The number of cases of infectious diseases notified was 88, which is 21 more than the number for 1908. They are classified as follows :—

	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total.
Smallpox.....	...	...	...	...	...
Scarlet Fever ...	7	16	11	31	65
Enteric Fever ...	2	...	4	9	15
Continued Fever	...	...	...	...	...
Erysipelas .....	...	...	...	...	...
Diphtheria and Croup	3	1	1	3	8
Total.....	12	17	16	43	88

71 tenements were involved in the 88 cases.

Table showing the number of notifications yearly for the past 10 years.

DISEASE.	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Smallpox.....	...	...	...	1	...	...	...	...	...	...
Scarlet Fever	37	86	45	64	67	5	23	53	44	65
Enteric Fever	23	27	17	15	23	16	48	10	14	15
Continued Fever	3	...	...	1	...	...	...	...	...	...
Typhus Fever .....	...	...	...	...	...	...	...	...	...	...
Diphtheria	2	9	7	2	6	7	2	7	8	8
Puerperal Fever .....	...	...	1	...	...	...	...	...	...	...
Erysipelas	2	2	...	4	3	5	2	3	1	...

ZYMOTIC MORTALITY.

The number of deaths from zymotic diseases during the year is as follows:—

DISEASE.	Deaths in 1909.
Smallpox	—
Measles	12
Scarlet Fever	2
Diphtheria and Croup	1
Whooping Cough	—
Typhus Fever	—
Enteric Fever	3
Continued Fever.....	—
Puerperal Fever.....	—
Diarrhœa	2
Enteritis	4
<hr/>	
Total.....	24

There were 24 deaths from zymotic diseases during the year. This is 27 less than the number for 1908, and is equal to a zymotic death-rate of 1·5 per thousand as compared with 3·36 for the previous year. The average zymotic death-rate for the past 10 years was 4·16. The zymotic death-rate in the Administrative County of Durham for 1909 was 1·61.

Table showing the number of deaths yearly from zymotic diseases during the past 10 years.

Disease.	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Smallpox.....	...	...	...	...	...	...	...	...	...	...
Measles	16	...	7	3	26	17	1	10	4	12
Scarlet Fever .....	...	1	2	1	1	...	...	...	1	2
Diphtheria and Croup .....	...	3	2	1	...	3	...	...	2	1
Whooping Cough.....	5	4	7	4	6	12	12	3	17	...
Enteric Fever	4	2	3	...	4	5	7	3	1	3
Continued Fever	1	...	...	...	...	...	...	...	...	...
Typhus Fever .....	...	...	...	...	...	...	...	...	...	...
Puerperal Fever .....	...	...	1	...	...	...	...	...	...	...
Diarrhoea	12	21	8	15	42	22	52	10	7	2
Enteritis.....	10	15	5	3	...	5	2	...	19	4
Total zymotic deaths.....	48	46	35	27	79	64	74	26	51	24
Deaths from other causes ...	235	239	187	216	252	211	214	218	227	191
Total.....	283	285	222	243	331	275	288	244	278	215

Table showing the annual death-rates from zymotic and general causes for the past 10 years.

Disease.	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Smallpox.....	...	...	...	...	...	...	...	...	...	...
Measles	1.28	...	.53	.22	1.84	1.15	.06	.66	.26	.79
Scarlet Fever .....	...	.08	.15	.07	.07	...	...	...	.06	.13
Diphtheria and Croup.....	...	.23	.15	.07	...	.2	...	...	.13	.06
Whooping Cough.....	.39	.31	.53	.3	.42	.81	.79	.19	1.12	...
Enteric Fever .....	.08	.15	.23	...	.28	.33	.46	.19	.06	.19
Continued Fever .....	.31	...	...	...	...	...	...	...	...	...
Typhus Fever .....	...	...	...	...	...	...	...	...	...	...
Puerperal Fever .....	...	...	.07	...	...	...	...	...	...	...
Diarrhoea .....	.96	1.65	.61	1.13	2.97	1.48	3.4	.66	.46	.13
Enteritis .....	.79	1.18	.38	.22	...	.33	.13	...	1.25	.27
Zymotic rate	3.8	3.6	2.69	2.03	5.5	4.3	4.9	1.7	3.36	1.58
Rate from other causes	18.8	18.8	14.4	16.27	17.9	14.3	14.1	14.4	14.99	12.61
General death-rate.....	22.6	22.4	17.09	18.3	23.4	18.6	19.01	16.1	18.35	14.19

POPULATION AND HOUSE ACCOMMODATION.

For the last three years, the method of estimating the population by multiplying the number of inhabited houses by the rate per house at the last census has not been applicable in the district. Owing to the great distress that has existed, consequent on the want of employment in the shipyards (shipbuilding being the main industry), many houses remained unoccupied all over the district, whereas three years ago an empty house was rarely seen. During the hard times, members of the same families have been more crowded together, and sub-letting of apartments has been a common practice. Individuals and families have left the district. The middle of the year witnessed the completion of the New Bridge works, which gave employment to many men. No allowance has been made for an increase in the population, which it is estimated remains the same as for last year and the year before, 15,148.

BUILDING TRADE.

The building trade was practically at a stand-still throughout the year. Four new houses were erected.

BIRTH-RATE.

The Birth-rate for the year is the lowest recorded for the district. It amounted to 33·07 per thousand, or 5·28 per thousand below last year's rate, and 5·56 per thousand less than the average for the past ten years.

DEATH-RATE.

The Death-rate is also the lowest recorded for the district. It is 14·19 per thousand, which is 4·11 less than the

rate for the year 1908, and 4·71 per thousand below the average for the past ten years. The Death-rate for the year in the Administrative County of Durham is 15·7.

	Old Age. Over 65 years.	Adult. Between. 5 and 65.	Childhood. Between 1 and 5.	Infantile. Under 1 year.
1908	2·7	5·74	2·6	7·06
1909	2·3	5·14	2·8	3·8

Decrease 0·4 Decrease 0·6 Increase 0·2 Decrease 3·26

The above table shows a decline in the Death-rate in three of the sections, there being a marked reduction in the infantile section. In the childhood section, age between one and five years, there is a slight increase, due entirely to an epidemic of Measles, in the spring of the year. Pneumonia, Bronchitis, Premature Birth, and Congenital Defects were the other chief causes of death.

INFANTILE MORTALITY.

The Infantile Mortality for the year 1909 is much lower than that of any year of which there is a record. It is 117 per thousand births, the next lowest record being 132 per thousand births, for the year 1907.

NOTIFICATION OF BIRTHS ACT.

This Act came into operation in the district at the end of the year 1908. The main object of adopting the Act was to reduce the Infantile Mortality. Only a small proportion of the births was not notified in accordance with the terms of the Act, the few failures being due mostly to ignorance

or to forgetfulness. Only in one or two cases at the most was there any ground for suspicion that there was any desire on the part of those responsible to evade the law.

The Lady Health Visitor was generally well received. In seeking for an explanation of the great diminution of the Infantile Mortality, the powerful influence of climatic conditions has not to be overlooked. But while recognising the fact that the year 1909 was a favourable one in this respect, I think the credit of reducing so markedly the Infantile Mortality must, to a considerable extent, be attributed to the operation of the Notification of Births Act and to the manner in which the Lady Health Visitor performed her duties. The Act has not been in force in the district long enough to enable one to judge with any degree of certainty regarding the results, but they are manifestly, so far, very encouraging.

DISEASES OF RESPIRATORY ORGANS.

The number of deaths from Bronchitis, Pneumonia and other diseases of the Respiratory Organs was 50, the same as in 1908.

TUBERCULOSIS.

Phthisis caused 8 deaths, which is 9 less than the number recorded for the previous year, and the number of deaths from Tubercular Diseases, other than Phthisis, was 1, which is 6 less than in 1908.

There is no system of notification, voluntary or otherwise, in operation in the district for cases of Tuberculosis, except the Public Health (Tuberculosis) Regulations, 1908. The

number of cases notified under these regulations during the year was 5.

Those living in the district were supplied with Sputum Flasks and Disinfectants, and with a large card of instructions to be hung up in the house.

In all cases of death from Phthisis, the house and clothing are disinfected.

The District Council does not contribute to any institution for the treatment of Tuberculosis.

There is no institution in or connected with the district with special arrangements for the treatment of Phthisis.

INQUESTS.

The number of Inquests held during the year was 16, and the deaths were classified as follows :—

Accidental Injuries.....	8
Accidental Suffocation	2
Suicide	4
Natural Causes	2

TYPHOID FEVER.

The number of cases notified during the year was 15. This is 1 more than for the previous year. One of the cases originated outside the district. In three cases domestic conditions might account for the illness. No case, so far as was ascertained, was due to food or milk. But in the district generally one has not far to seek for a cause in the form of open middens. As long as these and flies

exist, one need not be surprised at a case of Typhoid occurring now and again, rather wonder there is not more. I am pleased to be able to state that these middens are gradually being done away with and water closets substituted for them. 49 were so treated in this way during the year.

DIPHTHERIA.

The number of cases notified was 8, the same as for the year before. In one case the domestic conditions were unsatisfactory, but generally speaking the same remarks that have been made in reference to open middens, in reference to Typhoid, apply to Diphtheria.

SCARLET FEVER.

The district never seemed to be, for any length of time, free from this disease, during the year. It was frequently of a form so mild as to render diagnosis a matter of difficulty, and in all probability this feature explains why cases persistently occurred.

MEASLES.

An epidemic of Measles visited the district early on in the year. The infants' department in each of the schools was closed in consequence.

Central School, 5 weeks, beginning Feb. 15.

High Southwick School, 6 weeks, beginning March 1.

St. Hilda's, 5 weeks, beginning March 8.

St. Columba's, 3 weeks, beginning March 22.

The epidemic resulted in the death of 12 children.

WATER SUPPLY.

All the houses in the district are supplied with water by the Sunderland and South Shields Water Company. The water is pumped from deep wells in the magnesian limestone. The quality of the water is satisfactory for domestic purposes, and the supply abundant. At Thistley Hall the water supply has to be carted, and the difficulties in the way of having a pipe laid as far as the house are now very small. The water in a private well in the district was found by analysis to be unfit to be used for domestic purposes, and the well was permanently closed.

COMMON LODGING HOUSES.

There are no Common Lodging Houses in the district.

COWSHEDS AND DAIRIES.

The Cowsheds and Dairies were frequently inspected. There is a perceptible tendency on the part of cowkeepers to adopt more modern and more wholesome methods in the management of their cows and dairies. They recognize it is acting in their own interest to do so. Reluctance to take advantage of the means provided for ventilating the cowsheds is still very noticeable however. This is the one condition that, above all others, fosters and develops Tuberculosis in cows. During the year, two cowkeepers in the district disposed of the cows that failed to pass the Tuberculin test, and only admitted such new cows as passed the same ordeal.

The Council's Veterinary Surgeon, made quarterly, an inspection of all the dairy cows in the district. In one case he certified a cow as suffering from Tuberculosis of the Udder. The owner promptly isolated the animal, and next day it was slaughtered and buried.

JOINT ISOLATION HOSPITAL.

In all, 62 cases were removed to the Joint Isolation Hospital for treatment. Of that number, 51 were Scarlet Fever, and 11 Typhoid Fever. The proportion of Scarlet Fever cases removed to the Hospital was equal to 78 per cent of the total number of Scarlet Fever cases notified, and the number of Typhoid Fever cases was equal to 73 per cent of the number notified.

SMALLPOX HOSPITAL.

By existing arrangements the South Shields Corporation have undertaken to admit to their Smallpox Hospital any cases that may occur in Southwick-on-Wear. This arrangement is preparatory to an amalgamation of several authorities, Southwick-on-Wear Urban District Council being one, for the purpose of utilising the Smallpox Hospital belonging to the South Shields Corporation.

MEDICAL INSPECTION OF SCHOOL CHILDREN.

The Medical Officers of the County Council made an inspection of school children in the elementary schools in the district during the year. The Urban District Council is not the authority for this purpose.

SCAVENGING.

The Scavenging is done by the Council's own men, and generally, the work is performed in a satisfactory manner. All the material is deposited on the fields of farmers in the neighbourhood.

SLAUGHTER HOUSES.

The number of butchers' shops in the district is 18. Of these, 3 have slaughter houses, 8 butchers slaughter in their shops, and 7 do not slaughter at all. There is no specially certificated meat inspector. Most of the slaughtering takes place on one day in the week, and visits to the shops are made as far as possible on slaughtering days. During the year one carcase of beef was, at the time of slaughtering, found to be tuberculous. It was taken away by the staff of the Council and buried.

FACTORY AND WORKSHOPS ACT.

FATORIES.

The Number of Factories in the district is 15.

Shipbuilding Yards	3	Engine Works	2
Glass Works	2	Joinery Works	4
Brick Works	1	Printing Works	1
Iron Foundry	1	Sailmaking Works	1

WORKSHOPS.

The number of Workshops in the district is 52.

Retail Bakehouses	36	Blacksmiths	1
Shoemakers	2	Joinery Shops	1
Tailors	1	Tripe Preparing	1
Dressmakers	7	Botanic Brewers	1
Milliners	1	Stocking Knitters	1
Workplaces		1	

The Factories and Workshops were regularly inspected and it was found that the requirements of the act were well carried out. Section 22 of the Public Health Acts Amendment Act, 1890, is in force in the district, and the standard of "sufficiency and suitability" of sanitary accommodation is equal to that defined in the Secretary of State's order of the 4th February, 1903.

Many of the bakehouses date from the hard times during the last two years. In these, in order to make a little money, a portion of the family baking has been retailed to neighbours. There are no underground bakehouses.

HOME WORKERS.

The number of Home Workers in the district on the register is 7. Only at very irregular intervals do these have any home work to do. Four were engaged in dress-making, one in filemaking, and two in quilting. The condition of the workers houses was satisfactory.

SEWERS.

The Sewers answered all requirements during the year.

New Sewers were laid in Ferry Road and East Back Wear Street. The Sewers in Crown Road, Hawthorn

Street West Back, Keats Avenue West Back, and on the Railway, were repaired and partly relaid.

An additional manhole was constructed in the old Sewer, at the junction of Back Cornhill Terrace and Carley Road.

New Gullies were placed in Back Cornhill Terrace, Inkerman Street, Clockwell Street, Abbey Street West Back, Park Terrace, Trinity Street, Churchyard West Back (2), Park Terrace North Back, Clarence Street, and The Terrace Back.

NEW BYE-LAWS.

Bye-laws with respect to *(a)* Slaughter Houses, *(b)* Common Lodging Houses, *(c)* Nuisances, *(d)* Offensive Trades, *(e)* Cleansing of Footways and Pavements, etc., *(f)* Houses Let in Lodgings, or occupied by members of more than one family, were made by the Council on the 6th July, 1909, and allowed by the Local Government Board on the 28th August, 1909.

The Council are also in communication with the Local Government Board, on the subject of the issue of an order declaring Part ii. (Streets and Buildings) Sections 34 to 47, and 49 to 51 comprised in Part iii. (Sanitary Provisions), Part iv. (Infectious Diseases), Part v. (Common Lodging Houses), and Part x. (Miscellaneous) of the Public Health Acts Amendment Act, 1907, to be in force in the district.

REQUIREMENTS.

1. Continue to abolish privy ashpits and ashclosets.
2. Substitute for them water closets.

3. Continue the work of concreting back yards.
4. A Public Slaughter House.
5. A Public Mortuary.

The usual Tables and a Map accompany this Report.

I have the honour to be, Gentlemen,

Your obedient Servant,

JOHN J. CARRUTHERS,

Medical Officer of Health.

February 4th, 1910.

Streets in which Infectious Cases occurred and
the Number of Cases in each Street.

Cases.		Cases.	
Frank Street.....	3	Carley Road.....	10
James Armitage Street	5	Edith Street.....	3
The Green.....	2	Cornhill Terrace	2
Sunderland Road	1	Cornhill Road	1
Broadsheath Terrace...	1	Pembroke Street.....	1
Grosvenor Street	1	Wellington Street	1
Nelson Street	3	Clarendon Street.....	1
Varna Street	1	South Terrace	1
Gray Street	1	Amy Street	3
Lilburn Place	2	Shakespeare Street.....	1
Alice Street	1	Thomas Street North...	2
Edward Burdis Street	7	Chatterton Street	3
The Terrace.....	2	Abbey Street	2
Goldsmith Terrace.....	1	Goschen Street	1
Collingwood Street.....	1	Camden Street.....	2
North Terrace.....	2	Branston Street	4
Byron Road.....	2	Church Street	1
Cowper Street.....	2	Cato Street	1
James Street	2	Stoney Lane.....	1
Wear Street.....	1	Long Row.....	1
Malaburn Terrace	1	Kertch Street	3
Thirlwell Terrace	1		—

SOUTHWICK-ON-WEAR URBAN DISTRICT.

Vital Statistics of whole district during 1909 and previous years.

Year.	Population estimated to middle of each year.	Births.		Total deaths registered in the district.				Total deaths in public institutions in the district.	Deaths of residents registered in public institutions beyond the district.	Nett deaths at all ages belonging to district.	
		Num-ber.	Rate*.	Under 1 year of age.		At all ages.				Num-ber.	Rate*.
				Num-ber.	Rate per 1,000 births registered.	Num-ber.	Rate*.				
1899	12,210	512	41·9	103	201	253	20·7	4	257	21·04	
1900	12,490	522	41·7	85	162	269	21·5	14	283	22·6	
1901	12,700	510	40·1	111	217	268	21·1	17	285	22·4	
1902	12,983	521	40·1	74	142	204	15·7	18	222	17·09	
1903	13,261	525	39·5	98	186	218	16·4	25	243	18·3	
1904	14,114	554	39·2	110	198	293	20·7	38	331	23·4	
1905	14,778	562	38·03	95	169	251	16·9	24	275	18·6	
1906	15,148	621	40·9	116	186	254	16·8	34	288	19·01	
1907	15,148	536	35·3	71.	132	205	13·5	39	244	16·1	
1908	15,148	581	38·3	106	180	246	16·2	32	278	18·3	
Averages for years 1899-1908	13,798	544	39·5	96	177	246	17·9	24	270	19·6	
1909	15,148	501	33·07	57	170	176	11·6	39	215	14·1	

* Rates in columns 4, 8 and 12 calculated per 1,000 of estimated population.

Area of District in acres (exclusive of area covered by water) 844'544.

Total population at all ages	12,643	} At Census of 1901.
Number of inhabited houses.....	1,870	
Average number of persons per house	6'7	

INSTITUTIONS OUTSIDE THE DISTRICT
RECEIVING SICK AND INFIRM PERSONS
FROM THE DISTRICT:—

Durham County Asylum, Sedgefield.

Monkwearmouth and Southwick Hospital.

South Shields Rural and Southwick-on-Wear
Joint Isolation Hospital, Boldon.

Sunderland Infirmary.

Sunderland Union Workhouse.

The Sunderland Union Workhouse is not within
the District.

TABLE III.
SOUTHWICK-ON-WEAR URBAN DISTRICT.

Cases of Infectious Diseases notified during the Year 1909.

Notifiable Disease.	Cases notified in the whole district							No. of cases re- moved to hospital
	At all ages.	At ages—years.						Whole district.
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and up- wards	
Smallpox.....	...	...	...	...	...	...	...	...
Diphtheria ...	8	...	2	6	...	...	...	...
Membranous Croup.....	...	...	...	...	...	...	...	...
Erysipelas ...	...	...	...	...	...	...	...	...
Scarlet Fever	65	...	20	44	1	...	...	51
Enteric ,,	15	...	1	5	3	6	...	11
Totals...	88	...	23	55	4	6	...	62

ISOLATION HOSPITAL.

South Shields Rural and Southwick-on-Wear Joint Isolation Hospital,
Boldon. South Shields Rural District.

TABLE IV.—Causes of, and ages at, death during year 1909.

Causes of Death.	All ages.	Under 1 year.	1 & under 5.	5 & under 15.	15 & under 25.	25 & under 65.	65 and upwards.
Smallpox	::	::	::	::	::	::	::
Measles	12	2	10	::	::	::	::
Scarlet Fever	2	::	1	1	::	::	::
Whooping-Cough	::	::	::	::	::	::	::
Diphtheria (including Membranous Croup)...	1	::	1	::	::	::	::
Croup.....	::	::	::	::	::	::	::
Fever { Typhus	::	::	::	::	::	::	::
Enteric	3	::	::	1	1	1	::
Other Continued...	::	::	::	::	::	::	::
Epidemic Influenza	::	::	::	::	::	::	::
Cholera	::	::	::	::	::	::	::
Plague	::	::	::	::	::	::	::
Diarrhœa	2	1	1	::	::	::	::
Enteritis	4	4	::	::	::	::	::
Puerperal Fever.....	::	::	::	::	::	::	::
Erysipelas	::	::	::	::	::	::	::
Other Septic Diseases	1	::	::	::	::	1	::
Phthisis (Pulmonary Tuberculosis)	8	::	1	1	1	5	::
Other Tubercular Diseases	1	::	1	::	::	::	::
Cancer, Malignant Disease	5	::	::	::	::	4	1
Bronchitis	27	8	7	::	::	8	4
Pneumonia	22	4	10	::	1	7	::
Pleurisy.....	::	::	::	::	::	::	::
Other Diseases of Respiratory Organs	::	::	::	::	::	::	::
Alcoholism, Cirrhosis of Liver	1	::	::	::	::	1	::
Venereal Diseases	::	::	::	::	::	::	::
Premature Birth	18	18	::	::	::	::	::
Diseases and Accidents of Parturition	2	2	::	::	::	::	::
Heart Diseases	18	::	::	::	::	11	7
Accidents	9	2	::	1	::	5	1
Suicides	4	::	::	::	::	3	1
Convulsions.....	17	10	5	1	::	1	::
Marasmus and Atrophy ...	1	1	::	::	::	::	::
Debility	3	3	::	::	::	::	::
All other Causes.....	54	4	6	2	5	15	21
All Causes	215	59	43	7	8	63	35

TABLE SHOWING CASES NOTIFIED DURING THE YEAR.

	January.	February.	March.	April.	May.	June.	July.	August	September	October.	November.	December.	Totals.
Smallpox .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	2	3	2	3	7	6	3	4	6	5	14	10	65
Typhoid Fever .....	...	1	1	...	...	...	1	...	5	5	2	...	15
Continued Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria	3	...	...	...	1	...	...	...	1	1	2	...	8
Croup .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	5	4	3	3	8	6	4	4	12	11	18	10	88

Chief Vital Statistics for 1909, and their comparison with 1908, and the average of the ten years 1899—1908.

	Administrative County of Durham.		Southwick-on-Wear.	
	Estimated population, 1909—854,800. 1908—843,770.		1909—15,148. 1908—15,148.	
	Administrative County of Durham.		Southwick-on-Wear.	
	Annual rates per 1000 population.	Mean rates for 10 years 1899—1908.	Annual rates per 1000 population.	Mean rates for 10 years 1899—1908.
	1909	1908	1909	1908
Birth-rate	35·5	37·0	33·07	38·35
Death-rate	15·7	17·5	14·19	18·35
Zymotic death-rate.....	1·61	2·7	1·5	3·36
Infant mortality-rate (per 1,000 births)	134	151	117	184
Smallpox	nil	nil	nil	nil
Scarlet fever.....	0·09	0·07	0·13	0·06
Diphtheria and Membranous croup ...	0·17	0·18	0·06	0·09
Fever (enteric and continued)	0·12	0·18	0·19	0·23
Measles	0·37	0·27	0·79	0·67
Whooping cough	0·25	0·53	nil	0·4
Diarrhoea	0·59	1·44	0·13	1·51
Enteritis, etc.	nil	nil	0·27	0·61
Phthisis	0·91	0·95	0·52	1·47
Other tubercular diseases.....	0·73	0·70	0·06	0·5
Respiratory diseases	2·38	2·81	3·3	3·4

ENGLAND AND WALES.

Birth-rate, Death-rate, and Analysis of Mortality during the year 1909.

	Annual rate per 1,000 living.										Deaths under 1 year to 1,000 Births.
	Birth- rate.	Total Death- rate.	Zymo- tic Death- rate.	Small- pox. ...	Measles	Scarlet Fever.	Diph- theria.	Whoop- ing Cough.	Fever.	Diarr. hœa.	
England and Wales	25·6	14·5	1·12	...	0·35	0·09	0·14	0·20	0·06	0·28	109
76 Great Towns	25·7	14·7	1·42	...	0·48	0·11	0·15	0·24	0·06	0·38	118
143 Smaller Towns.....	24·8	13·9	1·08	...	0·33	0·09	0·16	0·17	0·06	0·27	111
England and Wales, less the 219 Towns.....	25·6	14·5	0·80	...	0·21	0·06	0·14	0·16	0·06	0·17	98
Southwick-on-Wear	33·07	14·1	1·5	...	0·79	0·13	0·06	...	0·19	0·4	117
County of Durham	35·5	15·7	1·6	...	0·37	0·09	0·17	0·25	0·12	0·59	134

SUMMARY OF WORK DONE IN THE INSPECTOR OF
NUISANCES' DEPARTMENT DURING THE YEAR 1909, IN THE
URBAN DISTRICT OF SOUTHWICK-ON-WEAR.

	Number of Nuisances abated after Notice.	General Remarks.
1—PUBLIC HEALTH ACTS.		
Dwelling-houses and Schools—		
Roofs	33	
Floors	16	
Spouts	74	
Defective Glazing	8	
Damp Walls	2	
Cowsheds	8	
Bakehouses	1	
Ashclosets Repaired	26	
Ash Closets in lieu of Ashpit Privies	16	
Ashpits and Privies Repaired	9	
Trade Offal Pans Provided.....	5	
Deposits of Refuse and Manure	5	
Water Closets in lieu of Ashpit Privies.....	43	
Water Closets Repaired	8	
Defective Yard Paving.....	51	
House Drainage—		
Defective Yard Gullies.....	25	
Other Faults	51	
Water Supply	52	
Encroachments on Yard Space.....	1	
Insufficient Ventilation	9	
Poultry Improperly Kept	8	
Other Nuisances	57	
Total.....	555	
2—HOUSING OF THE WORKING CLASSES ACT, 1890.		
	No.	Remarks.
Formal Notices served.....	8	
Dwellings dealt with.....	6	
Dwellings made habitable after formal notice	1	
Closing Orders applied for		
Closing Orders granted by Magistrate		
Dwellings permanently closed	2	

3.	No.	Remarks.
Number of New Houses erected during the year	4	
Number of such Houses occupied during the year	4	
4—WATER, FOOD, AND DRUGS.		
Samples of Water taken for Analysis.....	1	
Samples of Water condemned as unfit for use	1	
Seizures of Unwholesome Food	2	
Convictions for Exposing or Selling Unwholesome Food		
Samples of Food and Drugs taken for Analysis		
Samples of Food found Adulterated		
5—PRECAUTIONS AGAINST INFECTIOUS DISEASE.		
Lots of Infectious Bedding Stoved or Destroyed.....	107	
Houses Disinfected after Infectious Disease..	107	
Schools Disinfected after Infectious Disease.	3	
Prosecutions for Exposure of Infected Persons or Things		
Convictions for Exposure of Infected Persons or Things		

Annual Report of Medical Officer of Health for 1909,
for the Urban District of Southwick-on-Wear,
on the administration of the Factory and Workshop
Act, 1901.

FACTORIES, WORKSHOPS, WORKPLACES, AND
HOMEWORK.

1—INSPECTION.

Including Inspections made by Inspector of Nuisances.

Premises.	Number of Inspections.	Written Notices.
Factories (Including Factory Laundries) ...	60	3
Workshops (Including Workshop Laundries)	150	1
Workplaces (other than Outworkers' Premises included in Part 3 of this Report	52	
Total.....	262	4

2—DEFECTS FOUND.

Particulars.	Number of Defects.			Number of Prosecutions.
	Found.	Remedied.	Referred to H.M. Inspector.	
<i>Nuisances under the Public Health Acts :—</i>				
Want of cleanliness	1	1		
Want of ventilation				
Overcrowding				
Want of drainage of floors				
Other nuisances				
Sanitary accommodation.....				
Insufficient	1	1		
Unsuitable or defective ...	2	2		
Not separate for sexes				
 <i>Offences under the Factory and Workshop Act :—</i>				
Illegal occupation of underground bakehouse (s. 101) ...				
Breach of special sanitary requirements for bakehouses (ss. 97 to 100)				
Other offences (excluding offences relating to outwork which are included in Part 3 of this Report).....				
 Total.....	4	4		

3—HOME WORK.

NATURE OF WORK.	Lists received from Employers.	Addresses of outworkers received from other Councils.	Notices served occupiers as to keeping or sending lists.	Inspections of outworkers' premises.	Outwork in unwholesome premises, section 108.	
					Instances.	Notices served.
Quilt making	2	1	...	4	...	...
Wearing Apparel—						
(1) making, etc.	8	...	2	8	1	1
File making	2	...	...	2	...	...
Total.....	12	1	2	14	1	1

4—REGISTERED WORKHOPS.

Workshops on the Register (s. 131) at the end of the year.		Number.
Important classes of workshops, such as workshop bakehouses, may be enumerated here.	Bakehouses	36
	Shoemakers	2
	Tailors	1
	Dressmakers	7
	Milliners	1
	Blacksmiths.....	1
	Joinery Works	1
	Tripe Preparers	1
	Botanical Brewers.....	1
	Stocking Knitters	1
Total Number of workshops on Register.....		52

5—OTHER MATTERS.

Class.	Number.
Matters notified to H.M. Inspector of Factories :—	
Failure to affix Abstract of the Factory and Workshop Act (s. 133).....	
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act (s. 5) {	
Notified by H.M. Inspector	3
Reports (of action taken) sent to H.M. Inspector	3
Other	
Underground Bakehouses (s. 101) :—	
Certificates granted during the year	
In use at the end of the year	

Rainfall and Temperature during the year 1909, as recorded by Mr. John R. Hodgson, at Southwick Cemetery.

RAINFALL.

Rain Gauge. { Diameter of Funnel, 8 in.
Height of Top { Above Ground, 1 ft.
 { Above Sea Level, 170·79 ft.

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 or more recorded.
	Inches.	Inches.	Date.	
Jan.	·64	·14	13th	9
Feb.	1·35	·56	4th	11
Mar.	5·18	·95	6th	23
Apr.	2·70	·48	24th	16
May	1·74	1·5	25th	10
June	2·52	·74	24th	12
July	3·17	·61	30th	16
Aug.	2·99	·68	16th	17
Sept.	1·88	·44	27th	15
Oct.	2·81	·48	23rd	18
Nov.	1·24	·28	15th	11
Dec.	4·18	·94	6th	19
Total...	35·40			158

RECORD OF TEMPERATURE.

Date	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1	39	45	30	40	25	42	35	50	31	50	39	60
2	38	48	35	51	25	40	31	48	30	65	36	75
3	40	48	40	55	20	41	36	50	38	66	37	75
4	40	47	37	50	18	40	27	52	39	62	43	61
5	36	45	31	47	20	43	32	53	35	63	38	59
6	34	43	23	43	32	42	27	56	40	60	34	68
7	12	43	29	42	32	38	32	66	32	67	45	70
8	26	41	29	39	34	44	33	65	38	62	47	64
9	32	46	30	38	33	43	34	65	41	58	45	60
10	36	45	33	39	32	40	38	67	35	57	40	61
11	30	47	32	39	31	39	36	61	45	65	45	61
12	29	45	33	36	31	44	38	55	31	61	35	71
13	27	40	28	41	30	43	40	58	36	58	40	72
14	31	44	35	45	28	47	31	58	30	55	37	68
15	29	41	30	46	21	58	38	58	31	55	45	68
16	26	38	33	43	18	50	37	55	37	61	45	65
17	35	44	29	45	32	51	40	65	35	58	44	78
18	35	49	23	44	35	43	35	64	35	58	50	68
19	29	46	22	41	38	53	38	64	42	65	48	70
20	25	44	25	42	33	57	32	67	48	74	50	78
21	28	42	26	47	38	50	39	62	46	70	50	80
22	32	42	26	51	33	46	40	62	50	79	44	76
23	31	39	33	47	38	48	40	63	42	76	45	70
24	21	38	32	45	38	51	41	60	47	69	46	66
25	22	35	33	43	35	48	40	60	45	69	45	62
26	19	35	34	42	30	47	40	65	47	68	47	60
27	18	35	30	40	30	56	37	62	40	70	48	60
28	21	35	28	42	38	50	35	58	46	70	44	70
29	29	43			40	47	31	58	44	69	46	63
30	28	40			40	52	28	50	50	68	47	60
31	30	38			35	49			49	65		

RECORD OF TEMPERATURE.

Date	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1	37	85	50	70	40	64	48	58	32	48	32	41
2	55	88	48	65	50	67	49	66	45	52	31	40
3	51	85	54	71	50	67	50	69	48	57	28	41
4	45	78	51	72	40	64	48	64	46	54	24	33
5	47	65	48	73	48	64	38	62	45	55	20	38
6	49	63	49	79	48	65	38	58	34	55	24	39
7	50	61	50	83	46	60	49	60	27	46	28	38
8	45	65	54	83	35	55	38	64	31	47	26	35
9	50	73	49	78	42	62	48	66	38	53	33	48
10	48	69	52	78	45	70	52	62	30	50	46	50
11	46	64	52	78	50	61	42	68	37	53	40	50
12	54	71	57	78	47	60	45	62	32	52	40	46
13	48	72	52	76	38	52	38	57	23	48	40	45
14	50	69	55	80	37	58	42	58	24	44	40	43
15	51	68	58	86	42	68	44	58	24	42	39	42
16	49	71	50	70	43	58	48	60	25	40	38	40
17	50	74	50	65	48	61	45	58	27	44	32	40
18	46	72	48	68	40	62	40	67	28	44	24	39
19	48	67	53	68	48	69	49	57	30	40	23	32
20	56	74	44	70	40	60	45	61	32	45	20	34
21	54	72	43	70	42	54	40	56	32	43	19	34
22	48	74	15	65	42	55	43	57	30	42	31	40
23	46	70	54	64	50	57	40	55	32	39	30	40
24	50	67	52	67	48	65	35	52	25	43	30	42
25	50	65	44	62	50	58	29	48	30	42	29	40
26	42	67	50	62	47	56	35	45	30	44	39	48
27	50	66	43	67	48	60	37	46	37	42	38	50
28	50	73	52	73	45	57	32	45	35	50	34	48
29	52	70	45	67	44	63	27	42	34	47	27	47
30	50	66	45	63	44	60	21	40	33	44	35	46
31	50	65	40	59	44	60	27	44	33	44	35	45

TABLE V.
SOUTHWICK-ON-WEAR URBAN DISTRICT.
INFANTILE MORTALITY DURING THE YEAR 1909.
Deaths from stated Causes in Weeks and Months under One Year of Age.

CAUSE OF DEATH.		Under 1 wk.	1-2 weeks.	2-3 weeks.	3-4 weeks.	Total under 1 month.	1-2 months.	2-3 months.	3-4 months.	4-5 months.	5-6 months.	6-7 months.	7-8 months.	8-9 months.	9-10 months.	10-11 mths.	11-12 mths.	Total deaths under 1 year.
ALL CAUSES	Certified	23	1	1	2	27	7	4	2	3	1	1	3	1	3	3	3	58
	Uncertified .....	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
Common Infectious Diseases.	Small-pox .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chicken-pox .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrheal Diseases.	Measles .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2
	Scarlet Fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wasting Diseases.	Diphtheria (including Membranous Croup) .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Whooping Cough .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculous Diseases.	Diarrhoea, all forms .....	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
	Enteritis, Muco-enteritis, Gastro-enteritis .....	...	...	...	...	...	...	...	...	2	...	...	1	...	...	1	...	4
Other Causes.	Gastritis, Gastro-intestinal Catarrh .....	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
	Premature Birth.....	15	1	...	...	16	2	...	...	...	...	...	...	...	...	...	...	18
Tuberculous Diseases.	Congenital Defects.....	2	...	...	1	3	...	...	...	...	...	...	...	...	...	...	...	3
	Injury at Birth.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Causes.	Want of Breast-milk, Starvation .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Atrophy, Debility, Marasmus .....	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Other Causes.	Tuberculous Meningitis .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tuberculous Peritonitis: Tabes Mesenterica .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Causes.	Other Tuberculous Diseases .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Erysipelas .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Causes.	Syphilis .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rickets .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Causes.	Meningitis (<i>not Tuberculous</i>)...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	2
	Convulsions	2	...	1	1	4	5	...	1	...	...	...	...	...	...	...	...	10
Other Causes.	Bronchitis .....	...	...	...	...	...	...	2	1	...	...	...	2	...	1	2	...	8
	Laryngitis .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Causes.	Pneumonia .....	...	...	...	...	...	...	...	1	...	1	...	...	...	1	...	1	4
	Suffocation, overlying	2	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	3
Other Causes.	Other causes.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
		23	1	1	2	27	7	4	3	3	1	1	3	1	3	3	3	59

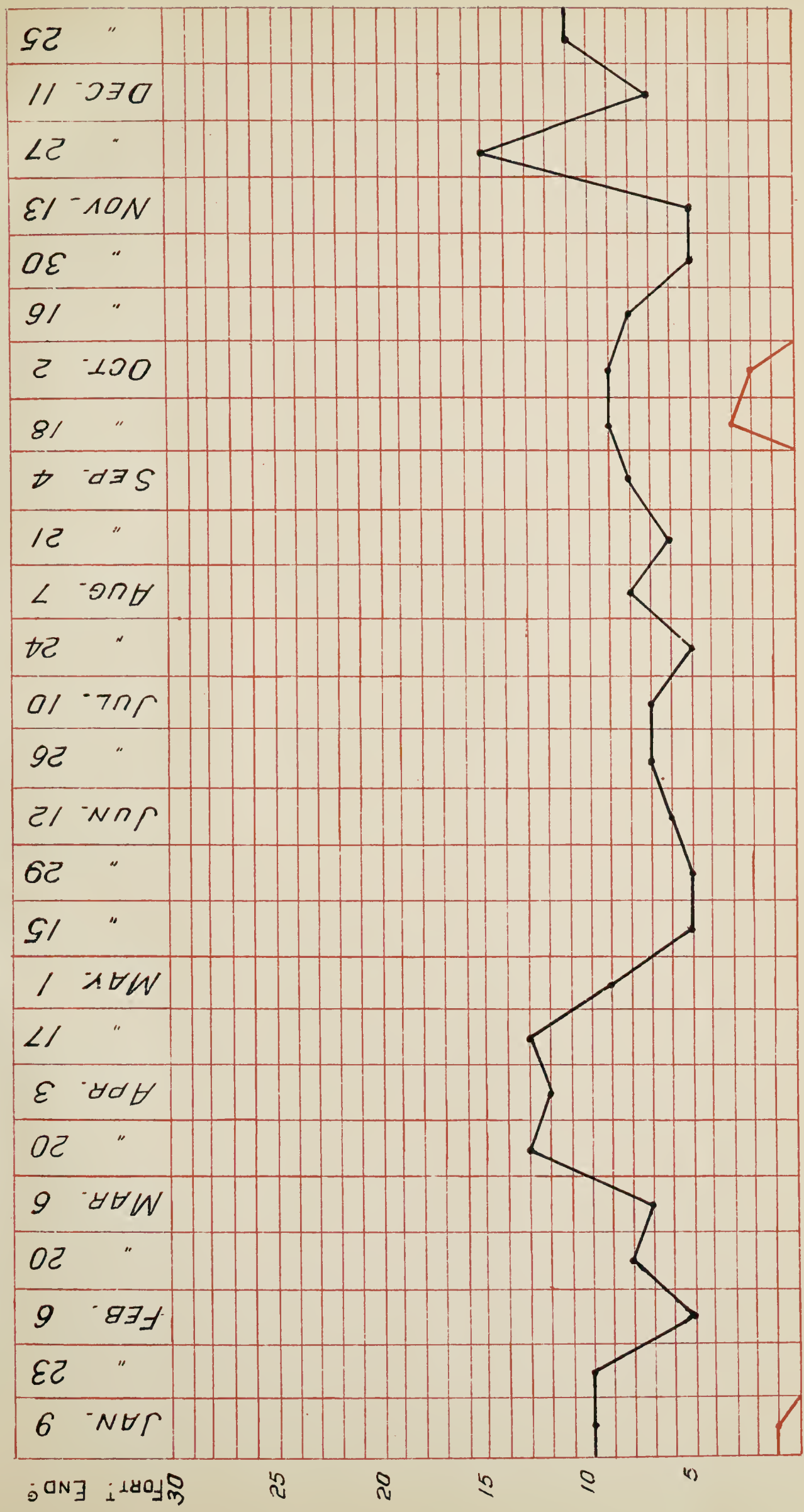
Births in the year—legitimate, 482 ; illegitimate, 19.

Deaths from all Causes at all Ages, 215.

Deaths in the year of legitimate infants, 57 ; illegitimate infants, 2.

Population (estimated to middle of 1909), 15,148.

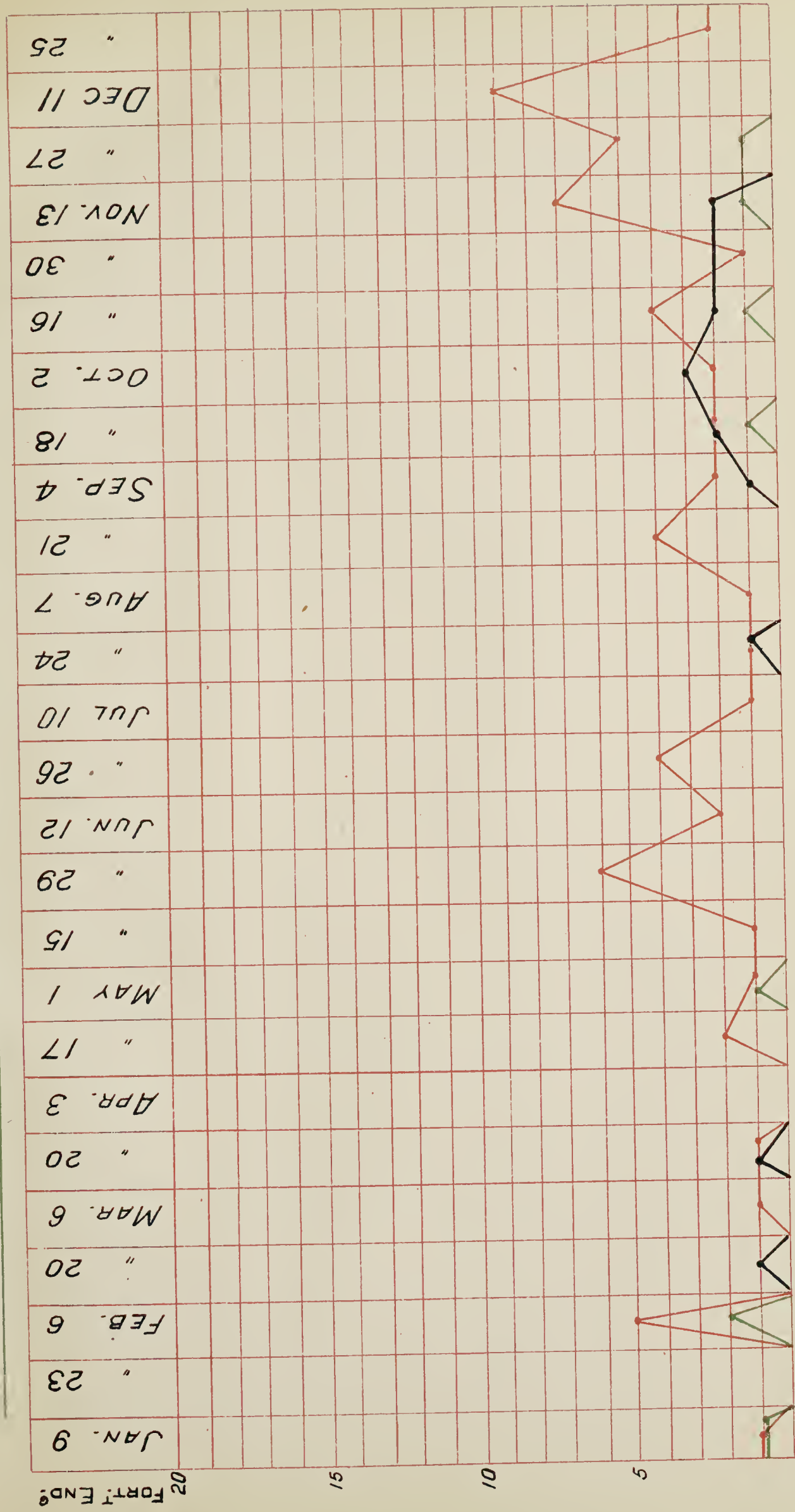
CHART SHEWING THE NUMBER OF DEATHS FROM ALL CAUSES AND DEATHS FROM DIARRHOEA
AND ENTERITIS DURING EACH FORTNIGHT IN THE YEAR 1909.



ALL CAUSES - BLACK

DIARRHOEA AND ENTERITIS - RED

CHART SHEWING THE NUMBER OF CASES OF SCARLET FEVER, ENTERIC FEVER AND DIPHTHERIA
AND MEMBRANOUS CROUP NOTIFIED DURING EACH FORTNIGHT IN THE YEAR 1909.



ENTERIC FEVER - BLACK

DIPHTHERIA AND MEMBRANOUS CROUP - GREEN

SCARLET FEVER - RED

